



2005 Drinking Water Quality Report

Frisco, Texas

Consumer Confidence Report

August 2006

Frisco initiates Mandatory Stage 3 Watering Restrictions On June 1st



The City of Frisco implemented mandatory Stage 3 outdoor water restrictions, beginning on June 1st, 2006, due to this summer's historic drought conditions and the excessive use of automatic

sprinkler systems. Information concerning Stage 3 restrictions has been disseminated through signs placed at intersections and major streets, water bill inserts, press releases, and City of Frisco publications and cable network. Stage 3 restrictions are expected to remain in place, without significant rainfall, possibly upgrading to Stage 4.

Every water customer, excluding those with variances and exemptions, may water one day per week on the residential trash pick-up day for their location. If in question, please contact the Department of Public at 972-292-5800. All outdoor watering is prohibited from 5 am to 8 am and 10 am to 6 pm. Soaker hoses and handheld hoses are exempt for foundation maintenance, and can be used up to an hour per day, any day, to water trees. Operating fountains with potable water, washing cars with hoses, and using water in a manner that allows runoff or other waste are prohibited under Stage 3 restrictions.

The City has been enforcing Stage 3 restrictions from June 1st. Enforcement procedures may include the disconnection of water service and/or irrigation systems. In these cases, violators would be subject to reconnection fees. Violators could also be issued citations or face monetary penalties up to \$2000 per offense, per day. Restrictions do not apply to those customers using well water, reuse, or reclaimed water for irrigation, unless the usage creates public safety or health hazards. Special "purple" signs, placed throughout the city, identify areas not using city water for irrigation purposes.

Currently, Lakes Lavon and Chapman are both 14 feet low and falling.... Please "Use Water Wisely!"

For information on our water supply contact the North Texas Municipal Water District at 972-442-5405.

Federal Requirements

The United States Environmental Protection Agency requires through the 1996 Safe Drinking Water Act Amendments that every public water system provide information to each water customer. This Consumer Confidence Report must include information on the water source, contaminants found in the water, special health effects, and any drinking water violations.

Special Notice for People with Weakened Immune Systems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as people undergoing chemotherapy, with organ transplants, with HIV/AIDS, or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* or other microbial contaminants are available from the Safe Drinking Water Hotline by calling 1-800-426-4791.

Our Drinking Water is Safe

This report is a summary of the quality of the water we provide our customers. This analysis was created by using data from recent tests required by the Texas Commission on Environmental Quality. Our water system has a "Superior" rating, exceeds all state and federal standards, and has not recorded any health violations. With the quality of our water, there may not be any health-based benefit to purchasing bottled water or any type of water filter.

All Drinking Water May Contain Contaminants

Drinking water, **including bottled water**, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the United States Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

The Constituent Table

The table on the following page contains all of the chemical constituents that have been found in our drinking water. The U.S. EPA requires water systems to test for up to 97 federally regulated primary constituents. As shown, the water quality surpasses the standards for each constituent found in our water as required by law. The following definitions are helpful while reviewing the table.

Maximum Contaminant Level (MCL) – The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) – The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of error.

Maximum Residual Disinfectant Level (MRDL) – The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL) – The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

NTU – Nephelometric Turbidity Unit

MFL – million fibers per liter (a measure of asbestos)

pCi/l – picocuries per liter (a measure of radioactivity).

ppm – parts per million, or milligrams/liter

ppb – parts per billion, or micrograms/liter

ppt – parts per trillion, or nanograms per liter

ppq – parts per quadrillion, or picograms per liter

Public Participation



The Frisco City Council meets the first and third Tuesday of every month at 6:30 p.m. The Council Chambers are located in the New City Hall at 6101 Frisco Square Boulevard. The council meetings are open to the public with opportunities for residents to express their concerns on any city-related subject.

Taste and Odor

Taste and odor problems can occur in any lake for a number of reasons, such as algae growth, a change in temperature, excessive rainfall, flooding, and drought or dry weather conditions. The grassy, earthy taste and smell usually occurs during the hot summer months and does not represent any type of health hazard. The North Texas Municipal Water District is continuing to improve treatment techniques to reduce this inconvenience.

Cryptosporidium

Cryptosporidium is a protozoan, which is so small it can only be seen with a microscope. It affects the digestive tract of humans and animals. People with healthy immune systems will usually recover within two weeks. The North Texas Municipal Water District has tested the water for cryptosporidium for several years. No cryptosporidium has ever been found.

Secondary Constituents

Many constituents (such as calcium, sodium, or iron), which are often found in drinking water, can cause taste, color, and odor problems. The State of Texas, not EPA, regulates these taste and odor constituents. These constituents are not causes for health concerns and are not required to be reported in this document.

Constituent Table

Constituent	Range	Highest Average Level	Maximum Contaminant Level	Maximum Contaminant Level Goal	Possible Source
Sampled and Regulated at the Water Treatment Plant					
Atrazine (ppb)	1.10 - 1.28	1.21	3	3	Herbicide Runoff
Simazine (ppb)	0.0 - 0.29	0.15	4	4	Herbicide Runoff
Barium (ppm)	0.030 - 0.032	0.032	2	2	Erosion of Natural Deposits
Fluoride (ppm)	0.50 - 0.70	0.70	4	4	Water Additive; Natural Geology
Nitrate	0.64 - 0.76	0.76	10	10	Fertilizer Runoff; Erosion of Natural Deposits
Turbidity (NTU)	0.07 - 0.37	0.15	0.3	N/A	Soil Runoff
Gross Beta (mrem/yr)	3.4 - 3.6	<4	50	0	Decay of natural and man-made deposits.
Carbon tetrachloride	0 - 0.6	0.15	5	0	Discharge from chemical plants and other industrial activities.
Sampled and Regulated at Customer Faucets in Frisco					
Lead (ppb)	2.8 - 90th Percentile	No Sites Above Action Level	Action Level of 15	15	Corrosion of Household Plumbing
Copper (ppm)	0.241- 90th Percentile	No Sites Above Action Level	Action Level of 1.3	1.3	Corrosion of Household Plumbing
Sampled and Regulated in the Frisco Water Distribution System					
Total Coliform	0 - 2.0	1.0	Presence in <5% of Samples	0	Human and Animal Fecal Waste
Total Haloacetic Acids (ppb)	23.2 - 36.7	33.2	60	N/A	By-product of Drinking Water Disinfection
Trihalomethanes (ppb)	52.4 - 73.5	70.6	80	N/A	By-product of Drinking Water Disinfection
Chloramines (ppm)	1.5 - 2.2	1.8	MRDL of 4.0	0	Disinfectant used to Control Microbes
Unregulated Constituents					
Sulfate (ppm)	68.0 - 69.0	69	250 Proposed		Minerals and Nutrients
Sodium (ppm)	14.5 - 17.4	17.4	Not Regulated		Natural Constituent
Hardness (ppm)	144 - 172	159	Not Regulated		Natural Constituent
Bromodichloromethane (ppb)	17.1 - 27.1	24.38	Not Regulated		Disinfection By-Product
Chloroform (ppb)	21.9 - 36.1	30.75	Not Regulated		Disinfection By-Product
Dibromochloromethane (ppb)	8.0 - 18.0	14.95	Not Regulated		Disinfection By-Product
Bromoform (ppb)	0 - 2.3	1.08	Not Regulated		Disinfection By-Product
TOC (ppm)	4.15 - 4.79	4.46	Treatment Technique		Organic Material Runoff

City of Frisco

2005

Consumer Confidence Water Quality Report

**Please Observe Mandatory Stage 3
Water Restrictions**

**Contact: David Hylton, Water
Education Coordinator at
972-292-5800**

**Para Traducccion en Espanol,
por favor de llamar al numero
972-292-5800.**



City of Frisco
11300 Research Road
Frisco, Texas 75034

STANDARD MAIL A
PERMIT NO. 1
FRISCO, TX 75034

CURRENT RESIDENT



Drought Contingency Plan

Stage 3, Severe (Mandatory)



The goal for Stage 3 is a twenty percent reduction in use that would have occurred in the absence of drought contingency measures. See detailed activation triggers and restrictions under the Frisco Drought Contingency Plan. Stage 3 is not intended to adversely affect any business that uses water for professional services.

One-Day-Per-Week Outdoor Watering Schedule

Residential Only

(Includes Duplexes, Town homes
and Apartments)

Residential Trash

Collection Zone Day*

Non-Residential

Residential Trash

Collection Zone Day*

** Watering day does not change during weeks with recognized holidays*

- ◇ Prohibit watering from **5 -8 am and from 10 am -6 pm** daily
- ◇ Prohibit hosing of paved areas, buildings, or windows (except for professional services)
- ◇ Prohibit operation of ornamental fountains with potable water
- ◇ Prohibit washing or rinsing of vehicles by hose
- ◇ Prohibit using water in such a manner as to allow runoff or other waste
- ◇ Soaker hoses, drip/bubbler systems, and hand-held hoses may be used for trees and shrubs up to one hour on any day or for foundations as necessary
- ◇ Provide a 30-day exemption from day-of-week restriction for new and existing landscape modifications. Time-of-day and excessive-use restrictions still apply.



Violation of restrictions may result in disconnection of customer irrigation systems and/or total water services, with reconnection fees, and possible monetary penalties. Restrictions do not apply to those customers using well water, reuse, or reclaimed water for irrigation, unless the usage creates public safety or health hazards.



The City has a full-time licensed irrigator available for free annual irrigation audits, focusing on residential customers. To request an audit call 972-292-5800, or email mbarth@friscotexas.gov.



Water News



Revised Water Plans



In April, 2006, the City Council revised the Water Conservation Plan and the Drought Contingency Plan to better define restrictions and exemptions. The purpose of adopting these plans was to reduce overall per capita water consumption and extend the life of our current water supplies. Major changes included:

- Revised City and District Stage-level triggers
- Allowed low-flow devices for foundation maintenance and tree preservation
- Prohibited 5-8am and 10am-6pm watering from Stage 2-4
- Outlined enforcement measures under both plans

For more detailed information on these plans, you may visit the Frisco website at: www.friscotexas.gov and navigate to the "Water Restrictions" page.

Water Conservation Efforts



The City of Frisco has hired a full-time **Irrigation Specialist** to conduct free annual residential irrigation audits. Call the Department of Public Works for an appointment at 972-292-5800.

Severe drought conditions have impacted our trees. The City created the **Tree Watering Promotion** in order to assist residents in the care of their trees. Under the program, Treegator has agreed to provide Frisco residents a 20% discount off retail prices and free shipping for online orders. Order at www.treegatordirect.com/frisco/; password is "save."



Water System Additions

The City has recently completed two ten million gallon ground storage tanks and will soon complete a 50 million gallon-per-day pump station, all located behind the new Public Works Facility at the southeast corner of Eldorado Parkway and Research Road. The added infrastructure will increase our water capacity to 96 million gallons per day, and will help maintain consistent pressure levels throughout the City.

The City has two pressure planes due to the elevation changes from the east to the west side of town. Dallas North Tollway is considered the dividing line between the two pressure planes. We are striving to increase the number of storage facilities in the west pressure plane.

The new Timber Ridge 2.5 million gallon elevated storage tank near 4th Army Memorial Road and Platinum Parkway was brought online in February, 2006. The Teel 2.5 million gallon elevated storage tank located at Teel Road and Panther Creek Road is projected to come online in early 2007.

Water Usage

In 2005, the City of Frisco used 7.8 billion gallons of water. During the month of February, we averaged 122 gallons per person per day, while during the month of September we reached a maximum of 531 gallons per person per day. The difference from winter to summer usage means that roughly 70% of our water consumption during the summer is for outdoor purposes only.

Water Source

The City of Frisco purchases treated surface water from the North Texas Municipal Water District. The District pumps raw water from Lake Lavon into the water treatment plant located in Wylie, Texas, and then pumps water to Frisco. Lake Texoma and Lake Chapman supplement the water from Lake Lavon.

Currently, Lake Lavon and Lake Chapman are 14 feet low and falling.... Do your part to "Use Water Wisely!"